

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062423\
 Data File : VN078393.D
 Acq On : 24 Jun 2023 14:37
 Operator : JC\MD
 Sample : 03393-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SF-9

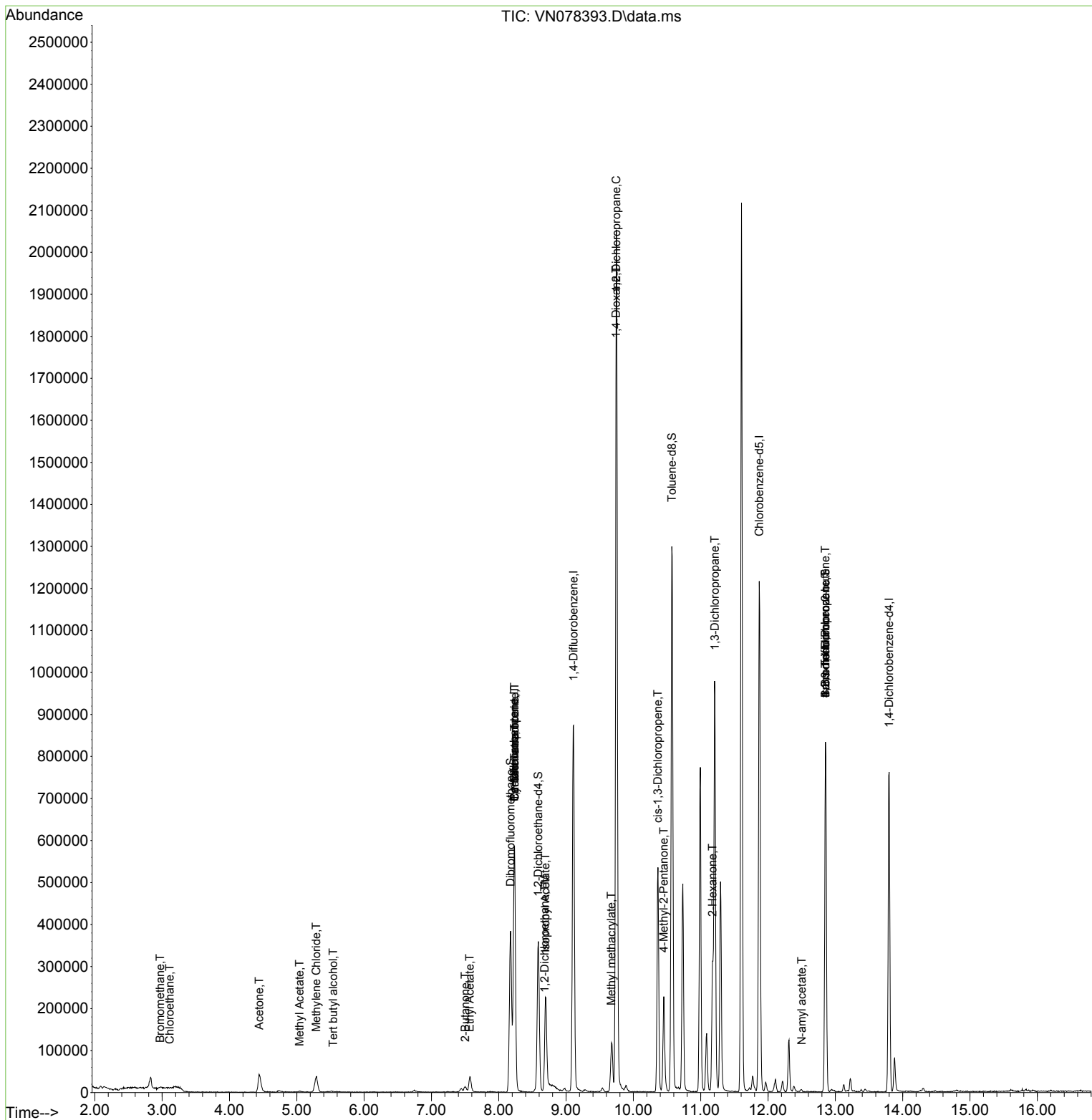
Quant Time: Jun 26 01:50:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

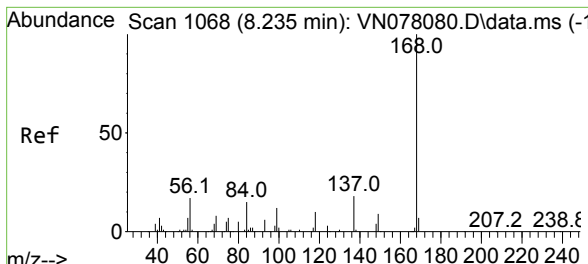
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	426856	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	793391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	727670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	212125	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	295246	51.877	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.760%	
35) Dibromofluoromethane	8.177	113	277030	55.224	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.440%	
50) Toluene-d8	10.571	98	948608	49.051	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 98.100%	
62) 4-Bromofluorobenzene	12.853	95	291103	48.420	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 96.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1093	Below Cal		90
5) Bromomethane	2.971	94	2370	0.496 ug/l	#	69
6) Chloroethane	3.112	64	952	0.221 ug/l	#	43
11) Tert butyl alcohol	5.541	59	368	0.468 ug/l	#	72
16) Acetone	4.442	43	78094	47.672 ug/l		96
18) Methyl Acetate	5.041	43	3394	0.450 ug/l		92
20) Methylene Chloride	5.289	84	29838	5.512 ug/l		94
25) 2-Butanone	7.500	43	20302	8.059 ug/l	#	80
31) Cyclohexane	8.235	56	10715	1.468 ug/l	#	29
36) 1,1-Dichloropropene	8.235	75	36877	5.125 ug/l	#	48
37) Ethyl Acetate	7.571	43	55534	9.879 ug/l		96
38) Carbon Tetrachloride	8.235	117	44228	5.821 ug/l	#	16
42) 1,2-Dichloroethane	8.682	62	1909	0.259 ug/l	#	73
43) Isopropyl Acetate	8.694	43	270391	25.152 ug/l	#	82
45) 1,2-Dichloropropane	9.747	63	2849	0.533 ug/l	#	45
48) Methyl methacrylate	9.671	41	6497	1.440 ug/l	#	32
49) 1,4-Dioxane	9.741	88	82	0.865 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.453	43	151295	26.726 ug/l		90
54) cis-1,3-Dichloropropene	10.365	75	98789	11.735 ug/l	#	70
57) 1,3-Dichloropropane	11.212	76	10966	1.266 ug/l	#	43
59) 2-Hexanone	11.176	43	225869	57.303 ug/l	#	19
71) Bromoform	12.853	173	1820	0.492 ug/l	#	1
74) N-amyl acetate	12.500	43	2801	0.424 ug/l	#	45
75) 1,1,2,2-Tetrachloroethane	12.917	83	67	Below Cal	#	18
76) 1,2,3-Trichloropropane	12.853	75	156237	31.156 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	156237	95.720 ug/l	#	15
94) Hexachlorobutadiene	15.517	225	226	Below Cal	#	57

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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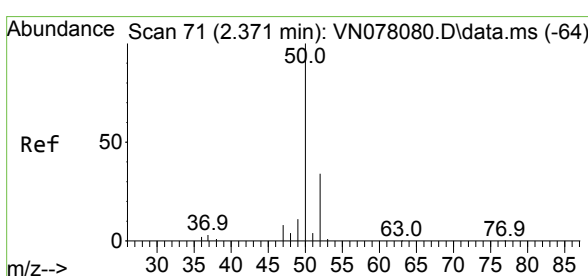
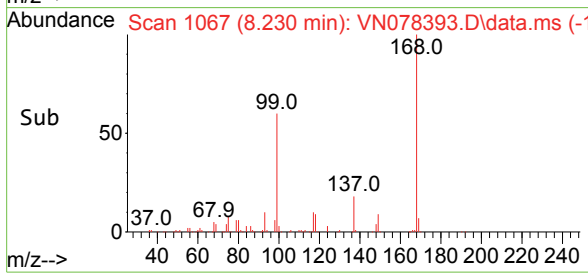
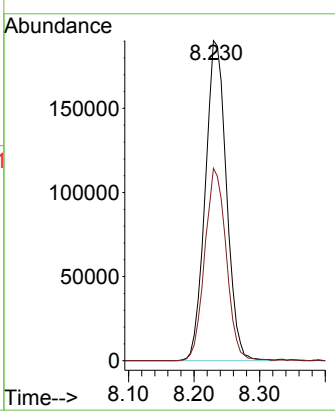
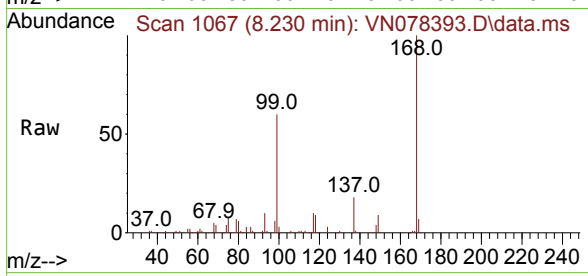


#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 8.230 min Scan# 11
 Delta R.T. -0.005 min
 Lab File: VN078393.D
 Acq: 24 Jun 2023 14:37

Instrument :
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 ClientSampleId :
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Tgt Ion:168 Resp: 426856

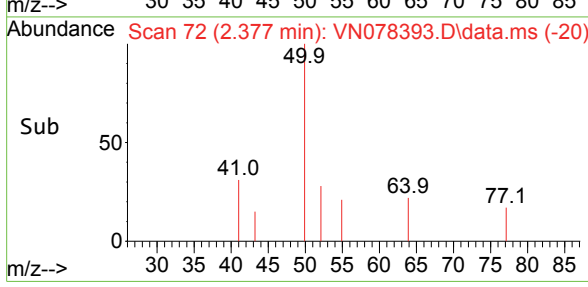
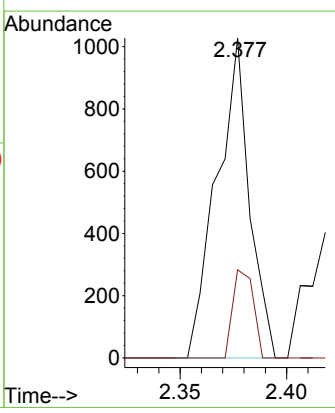
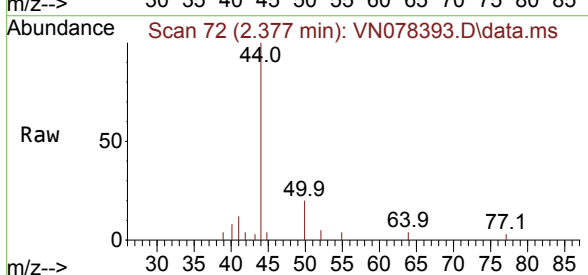
Ion	Ratio	Lower	Upper
168	100		
99	60.2	53.0	79.6

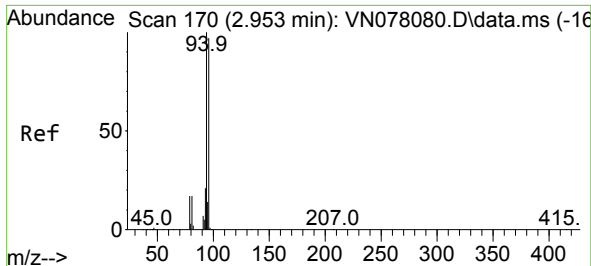


#3
 Chloromethane
 Concen: Below Cal
 RT: 2.377 min Scan# 72
 Delta R.T. 0.006 min
 Lab File: VN078393.D
 Acq: 24 Jun 2023 14:37

Tgt Ion: 50 Resp: 1093

Ion	Ratio	Lower	Upper
50	100		
52	27.5	26.5	39.7

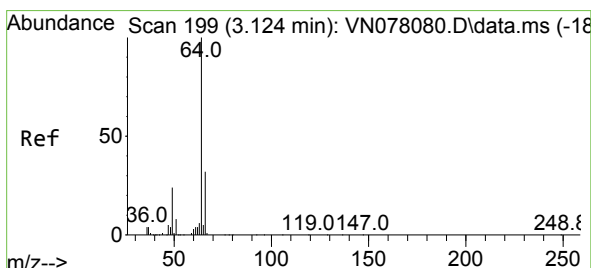
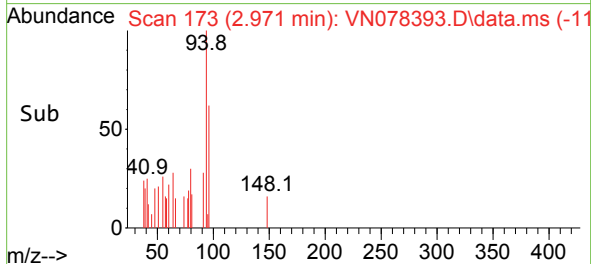
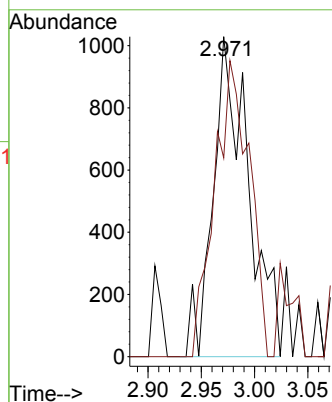
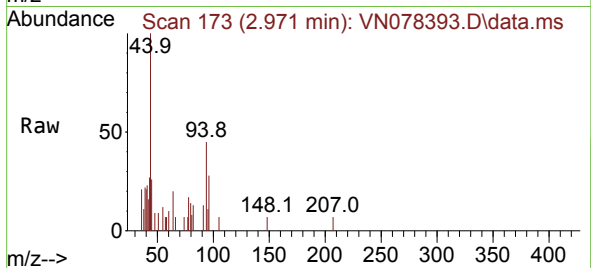




#5
Bromomethane
Concen: 0.496 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

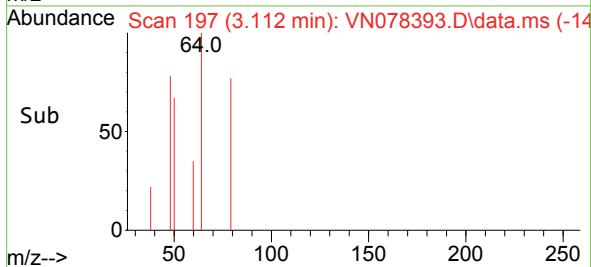
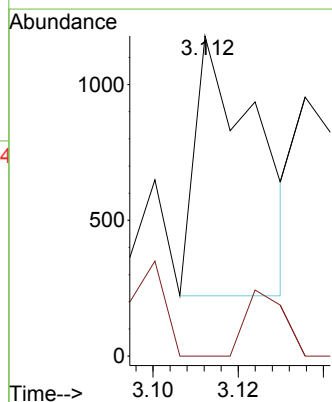
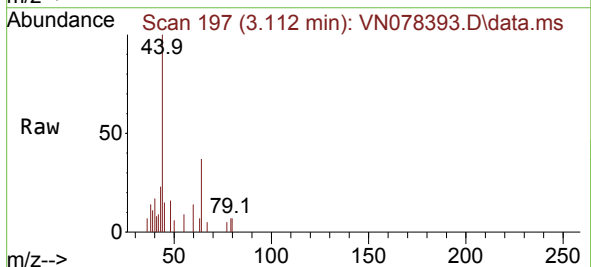
Instrument :
MSVOA_N
ClientSampleId :
SF-9

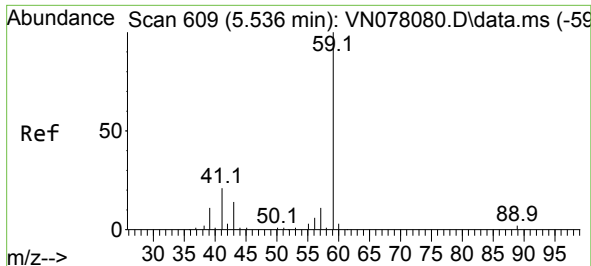
Tgt Ion: 94 Resp: 2370
Ion Ratio Lower Upper
94 100
96 62.1 73.1 109.7#



#6
Chloroethane
Concen: 0.221 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.012 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 64 Resp: 952
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

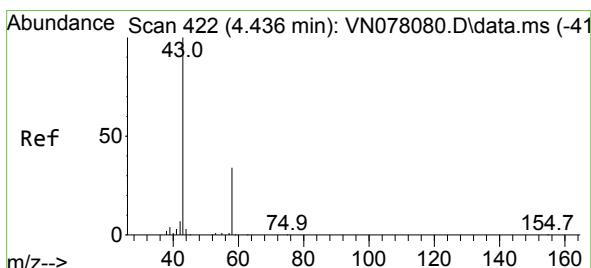
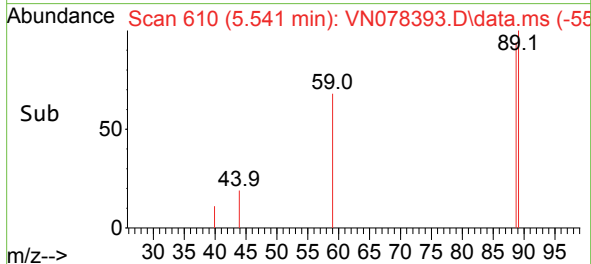
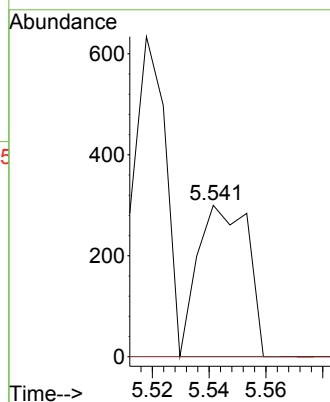
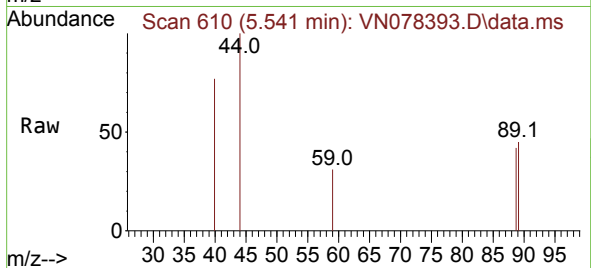




#11
Tert butyl alcohol
Concen: 0.468 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

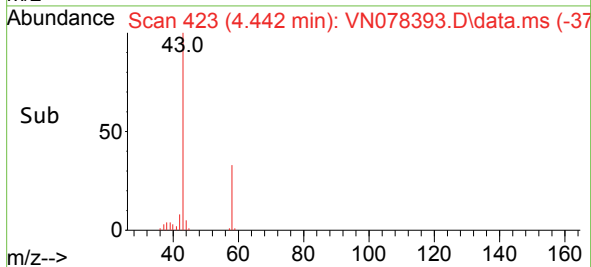
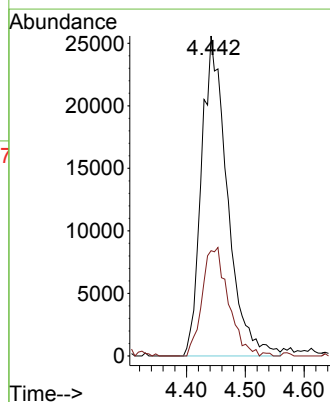
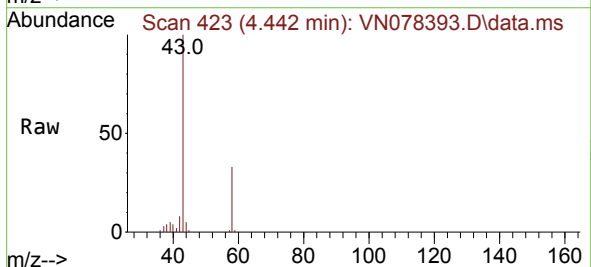
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MSVOA_N
ClientSampleId :
SF-9

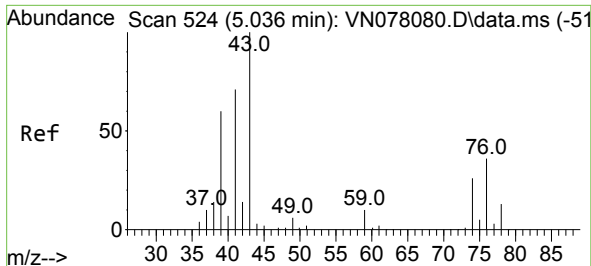
Tgt Ion: 59 Resp: 368
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 47.672 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 43 Resp: 78094
Ion Ratio Lower Upper
43 100
58 32.9 28.0 42.0

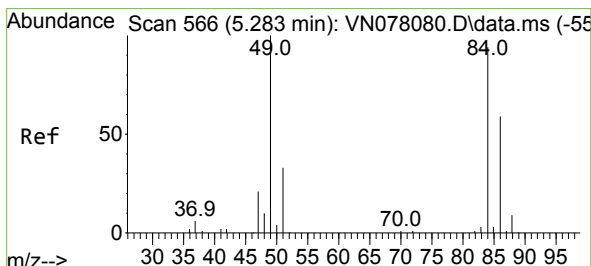
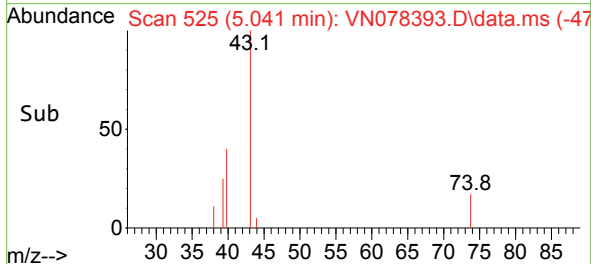
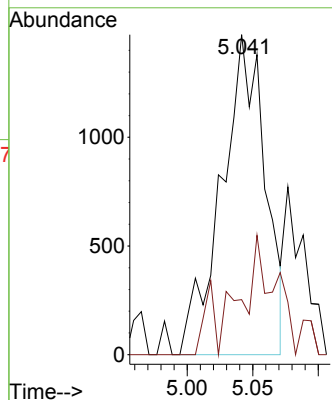
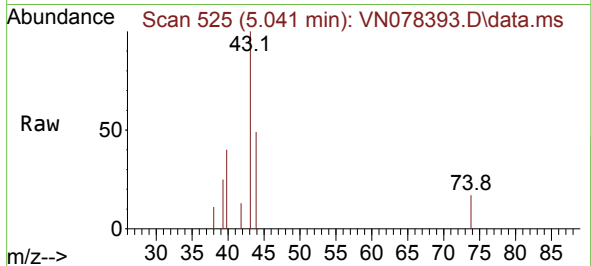




#18
Methyl Acetate
Concen: 0.450 ug/l
RT: 5.041 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

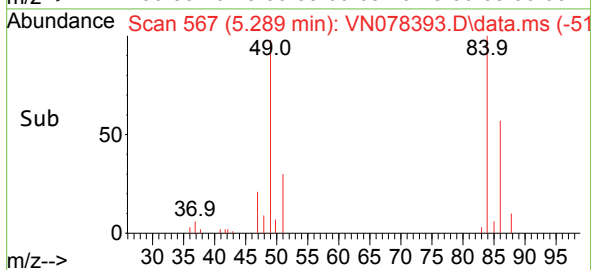
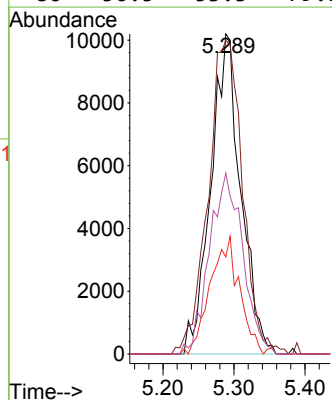
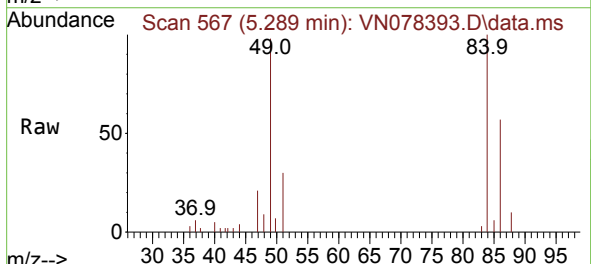
Instrument :
MSVOA_N
ClientSampleId :
SF-9

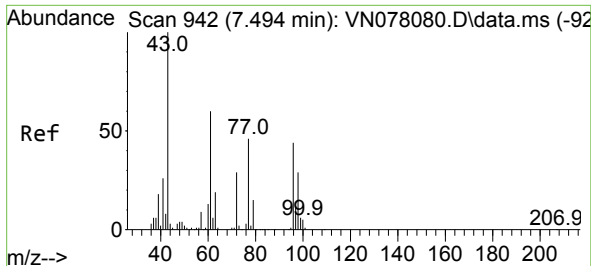
Tgt Ion: 43 Resp: 3394
Ion Ratio Lower Upper
43 100
74 28.3 26.2 39.4



#20
Methylene Chloride
Concen: 5.512 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 84 Resp: 29838
Ion Ratio Lower Upper
84 100
49 96.5 79.7 119.5
51 30.3 25.2 37.8
86 56.5 53.3 79.9

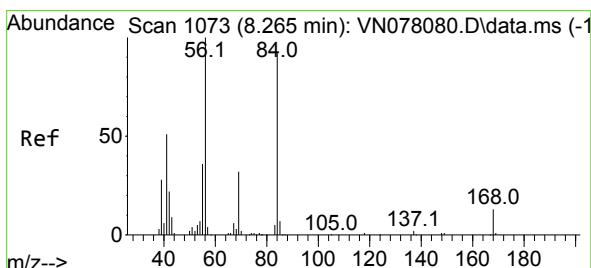
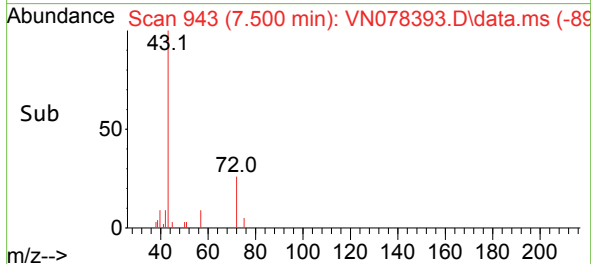
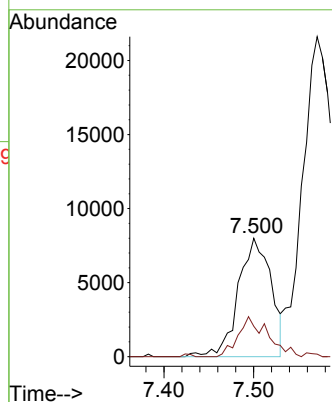
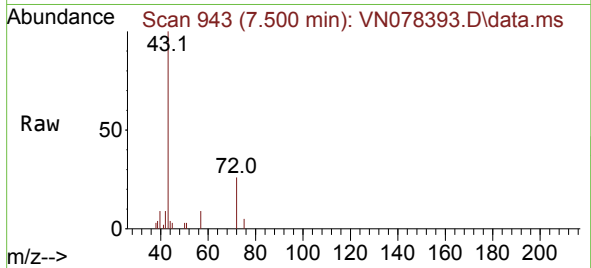




#25
2-Butanone
Concen: 8.059 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

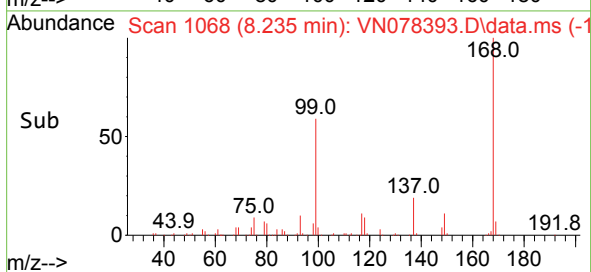
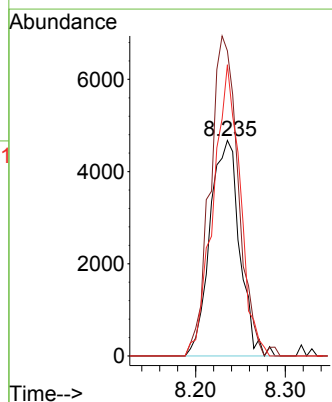
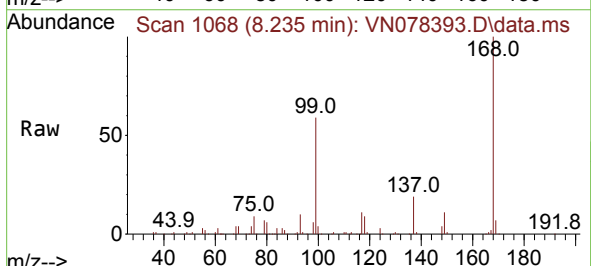
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ClientSampleId :
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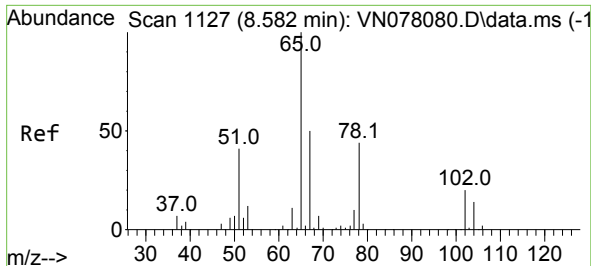
Tgt Ion: 43 Resp: 20302
Ion Ratio Lower Upper
43 100
72 25.7 30.2 45.2#



#31
Cyclohexane
Concen: 1.468 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 56 Resp: 10715
Ion Ratio Lower Upper
56 100
69 141.7 26.8 40.2#
84 135.2 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 51.877 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

Instrument :

MSVOA_N

ClientSampleId :

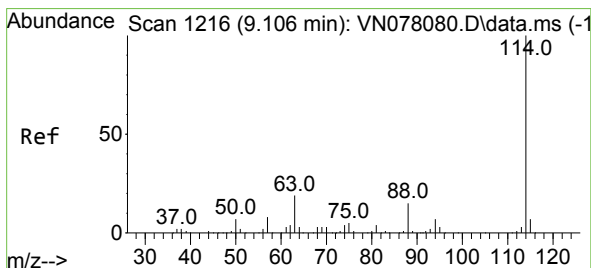
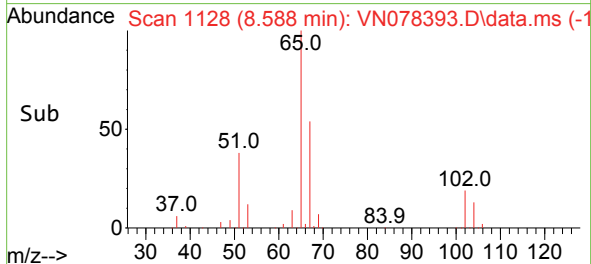
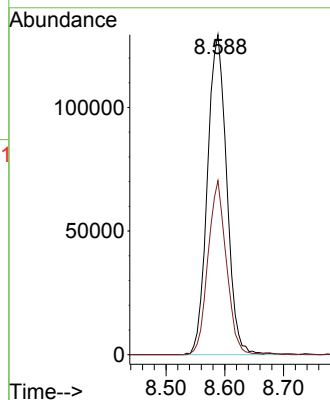
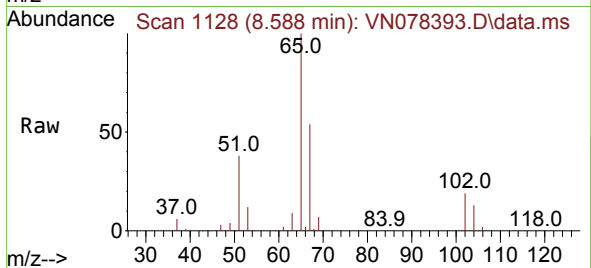
SF-9

Tgt Ion: 65 Resp: 295246

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

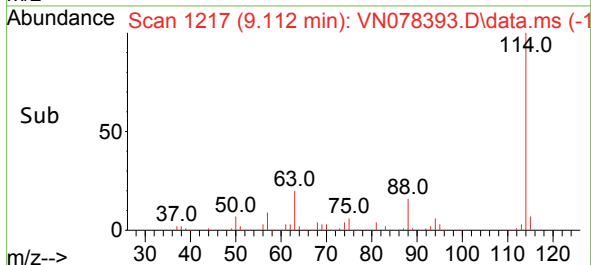
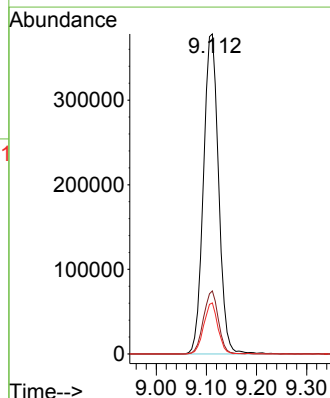
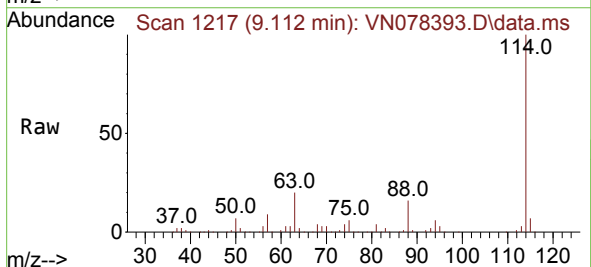
Tgt Ion: 114 Resp: 793391

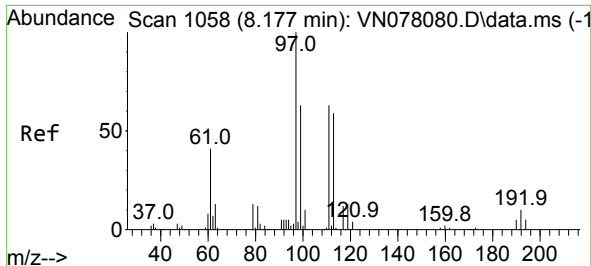
Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.4

88 16.0 0.0 30.6

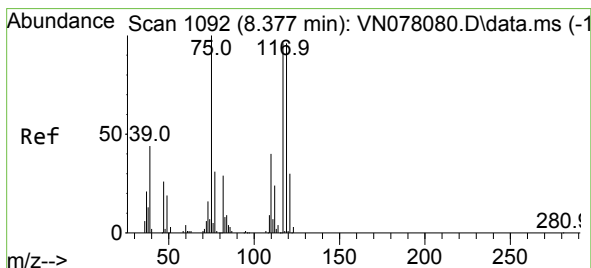
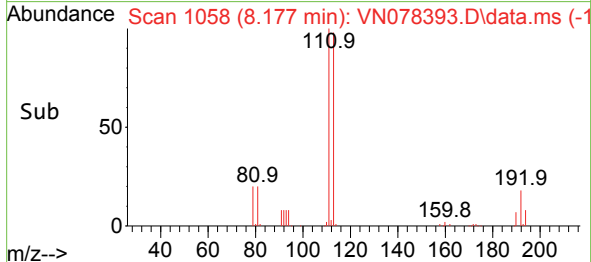
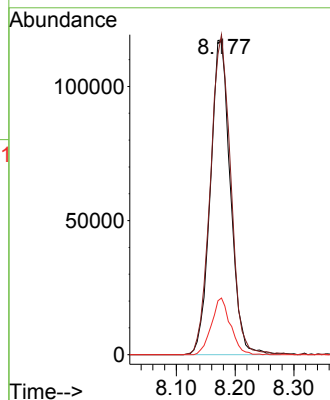
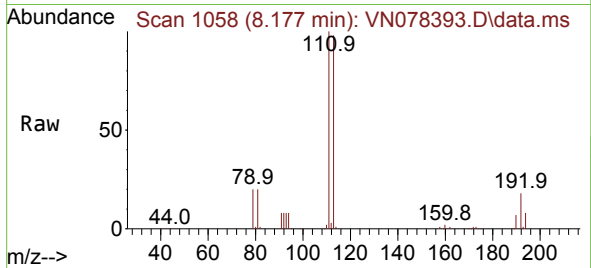




#35
Dibromofluoromethane
Concen: 55.224 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

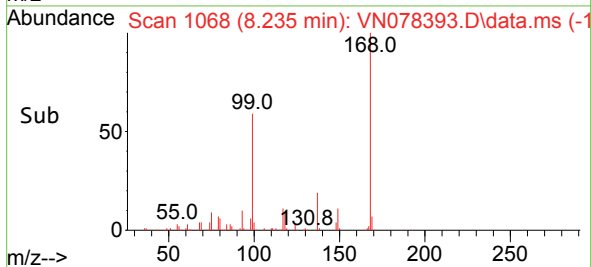
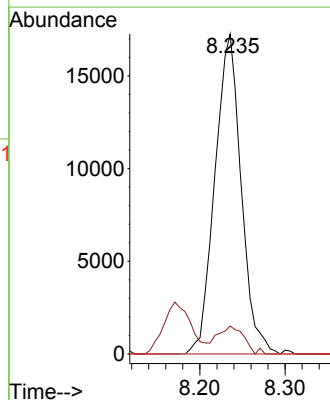
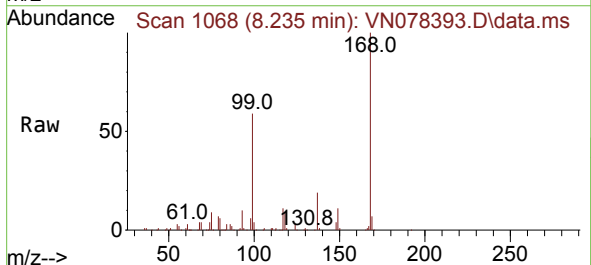
Instrument :
MSVOA_N
ClientSampleId :
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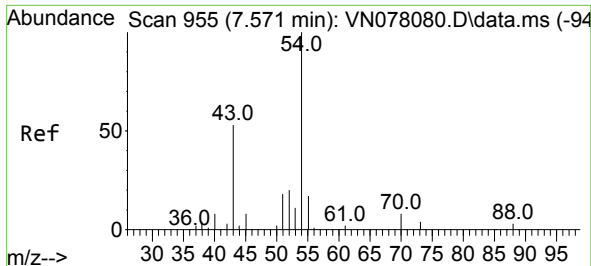
Tgt Ion:113 Resp: 277030
Ion Ratio Lower Upper
113 100
111 103.7 82.6 123.8
192 17.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.125 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 75 Resp: 36877
Ion Ratio Lower Upper
75 100
110 8.6 19.1 57.3#
77 0.0 25.0 37.4#

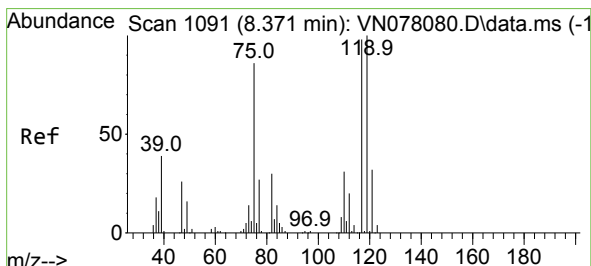
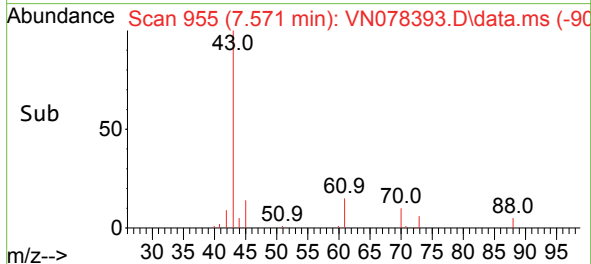
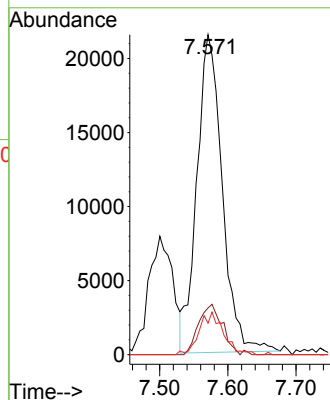
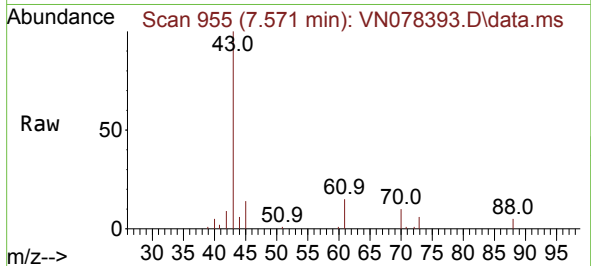




#37
Ethyl Acetate
Concen: 9.879 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

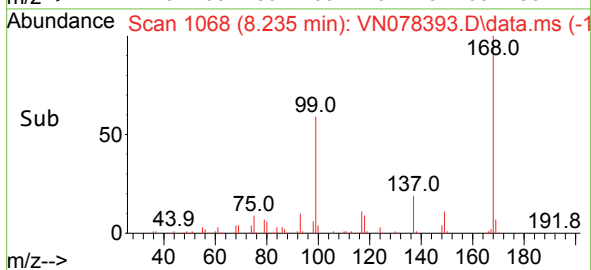
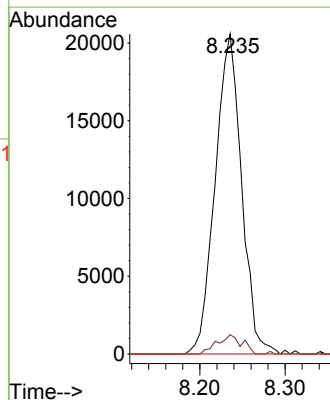
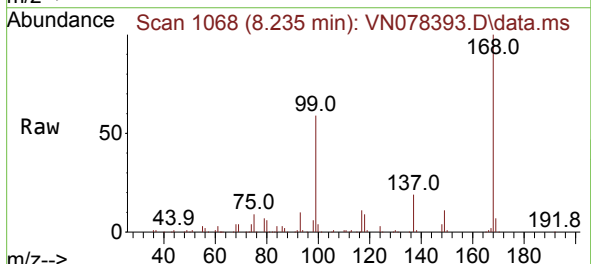
Instrument :
MSVOA_N
ClientSampleId :
SF-9

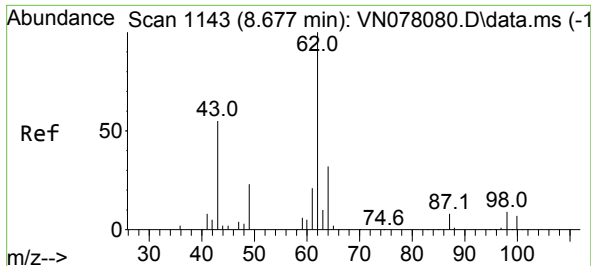
Tgt Ion:	43	Resp:	55534
Ion	Ratio	Lower	Upper
43	100		
61	14.9	13.2	19.8
70	12.7	11.3	16.9



#38
Carbon Tetrachloride
Concen: 5.821 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion:	117	Resp:	44228
Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.259 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

Instrument :

MSVOA_N

ClientSampleId :

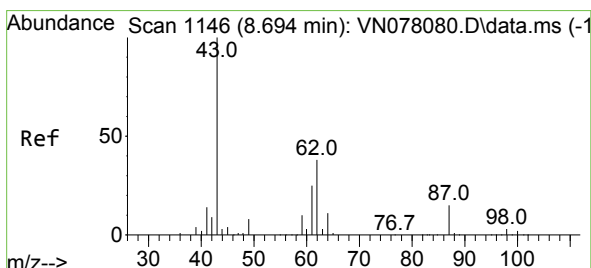
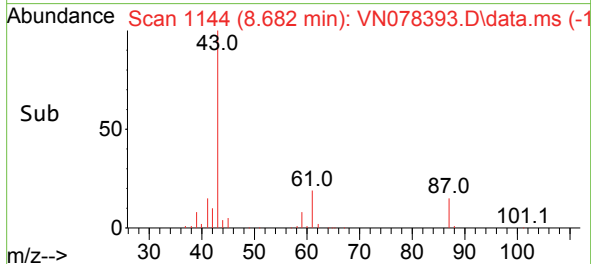
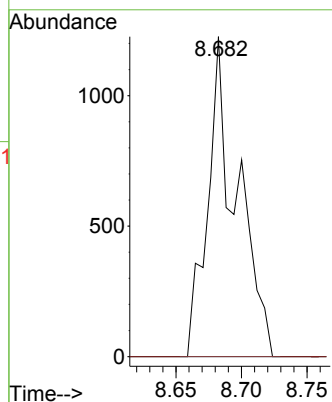
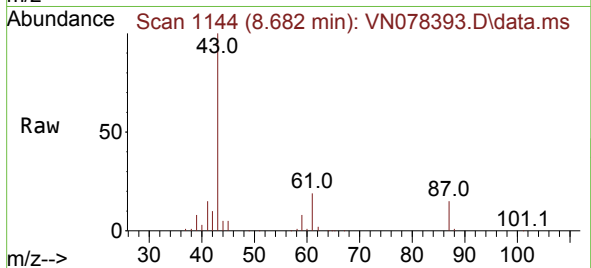
SF-9

Tgt Ion: 62 Resp: 1909

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 25.152 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

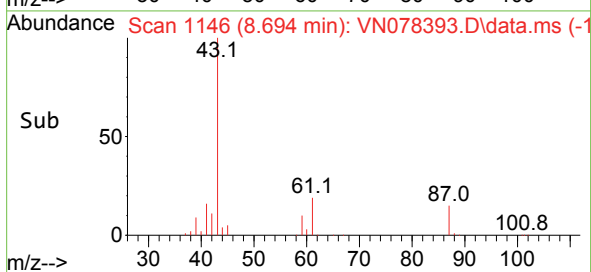
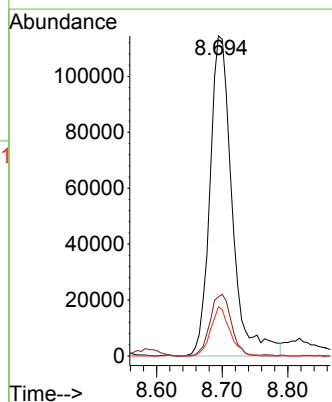
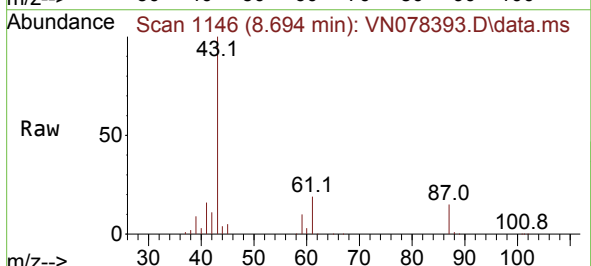
Tgt Ion: 43 Resp: 270391

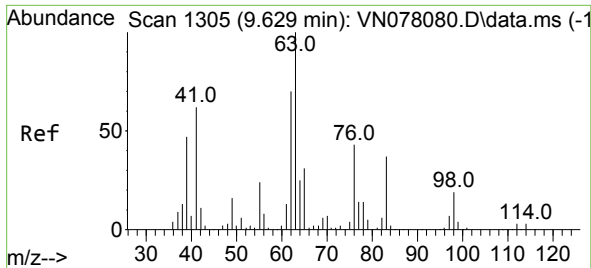
Ion Ratio Lower Upper

43 100

61 18.4 24.7 37.1#

87 13.2 14.6 21.8#

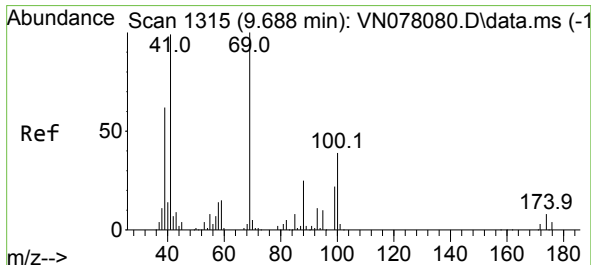
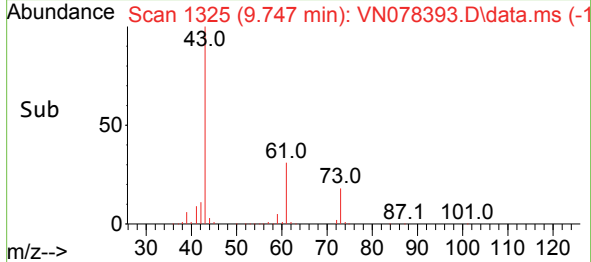
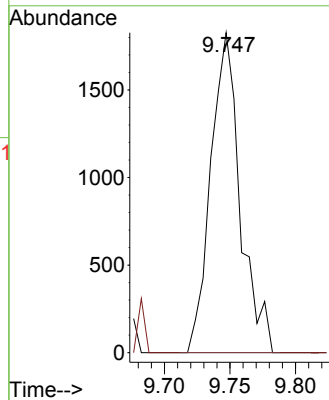
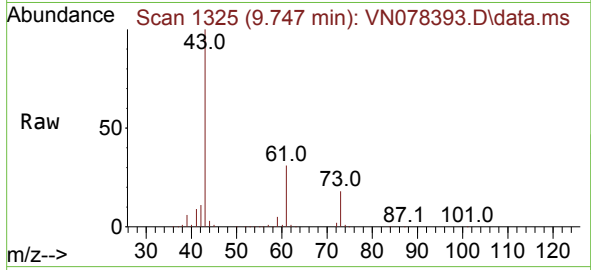




#45
1,2-Dichloropropane
Concen: 0.533 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

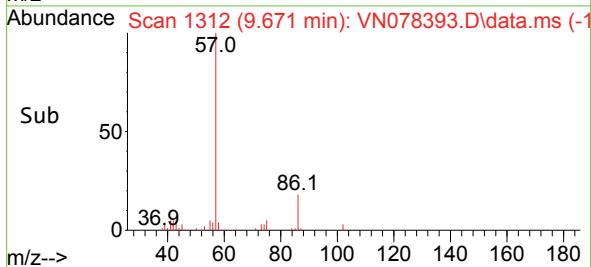
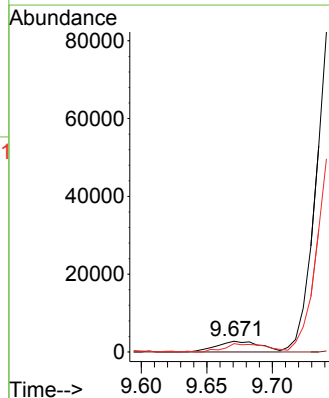
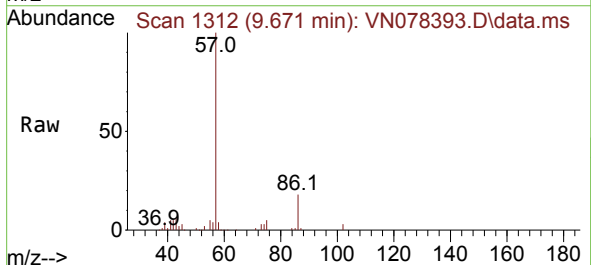
Instrument :
MSVOA_N
ClientSampleId :
SF-9

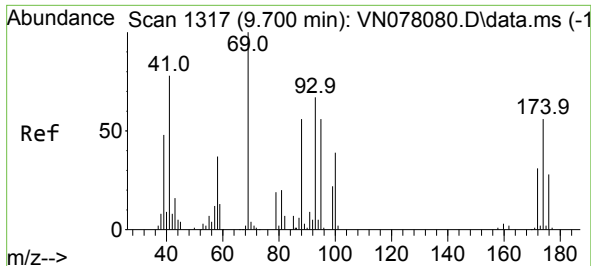
Tgt Ion: 63 Resp: 2849
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.440 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 41 Resp: 6497
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 73.6 54.6 81.8

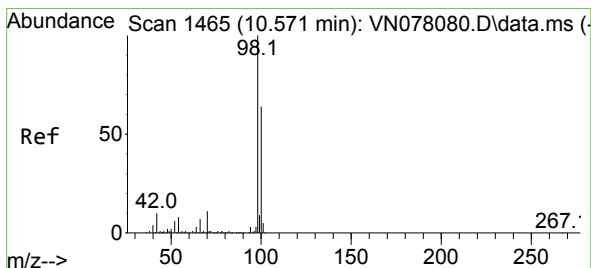
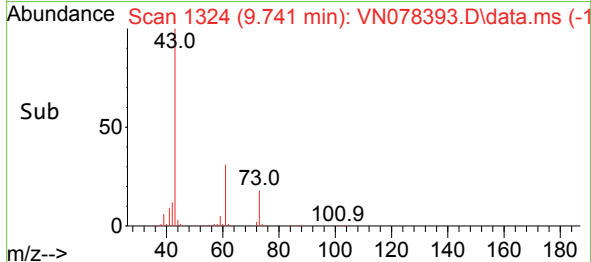
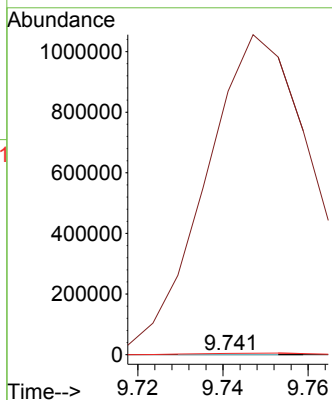
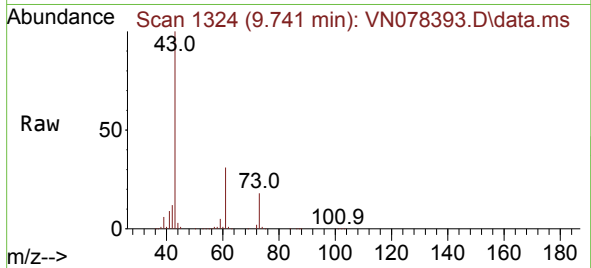




#49
1,4-Dioxane
Concen: 0.865 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.041 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

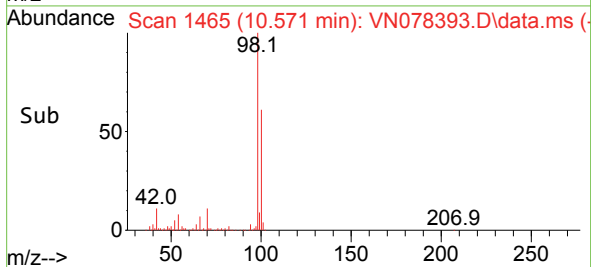
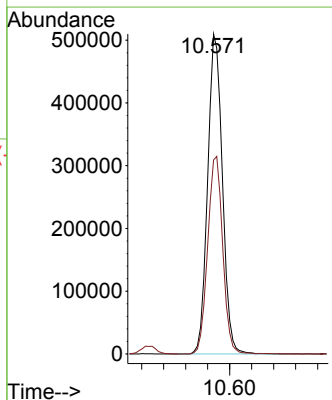
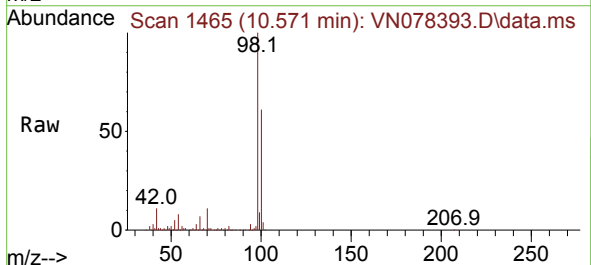
Instrument :
MSVOA_N
ClientSampleId :
SF-9

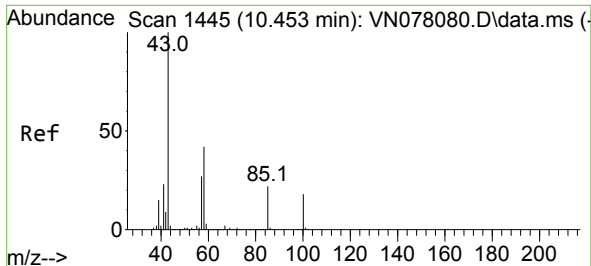
Tgt Ion: 88 Resp: 82
Ion Ratio Lower Upper
88 100
43 2347064.6 17.0 25.6#
58 11737.8 47.0 70.4#



#50
Toluene-d8
Concen: 49.051 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 98 Resp: 948608
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0

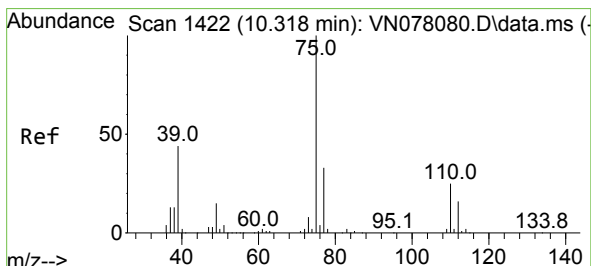
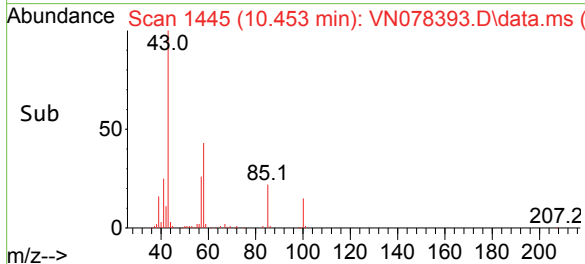
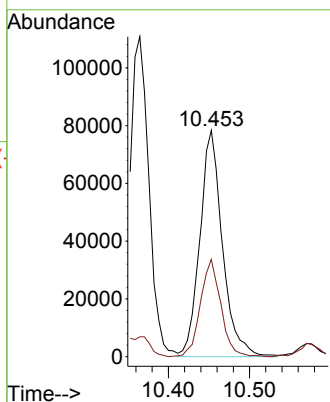
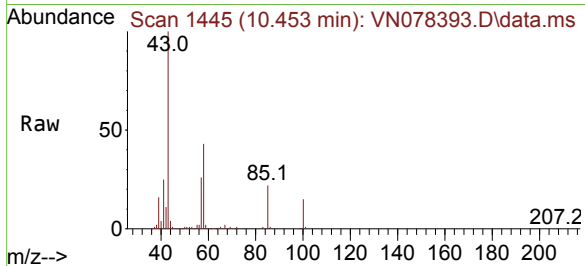




#51
4-Methyl-2-Pentanone
Concen: 26.726 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

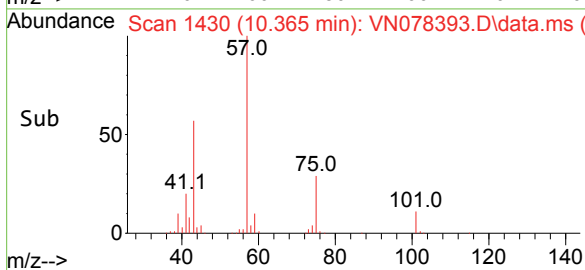
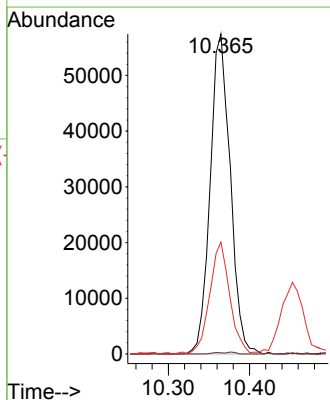
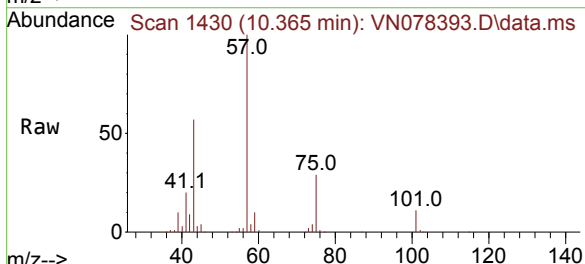
Instrument :
MSVOA_N
ClientSampleId :
SF-9

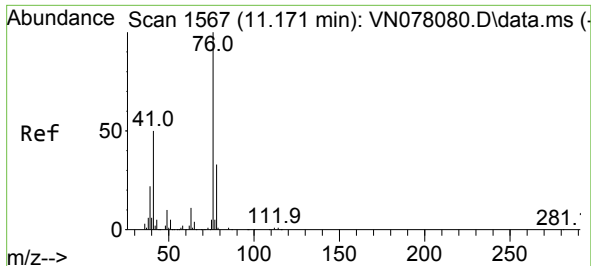
Tgt Ion: 43 Resp: 151295
Ion Ratio Lower Upper
43 100
58 39.0 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 11.735 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 75 Resp: 98789
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 34.6 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.266 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

Instrument :

MSVOA_N

ClientSampleId :

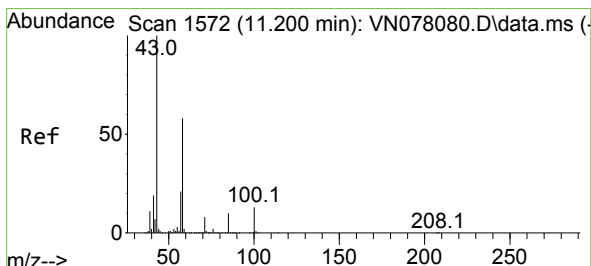
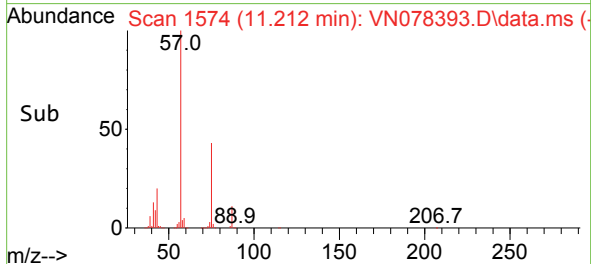
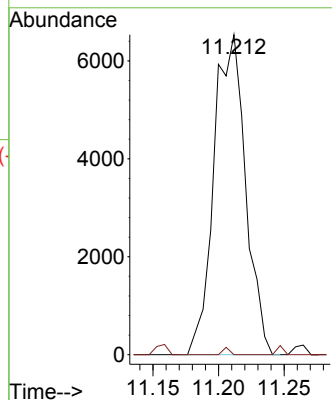
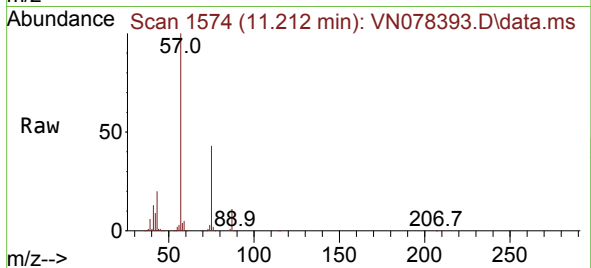
SF-9

Tgt Ion: 76 Resp: 10966

Ion Ratio Lower Upper

76 100

78 0.5 26.1 39.1#



#59

2-Hexanone

Concen: 57.303 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078393.D

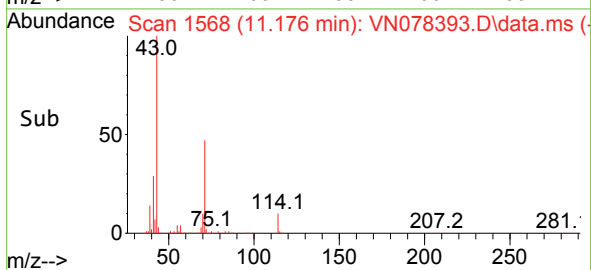
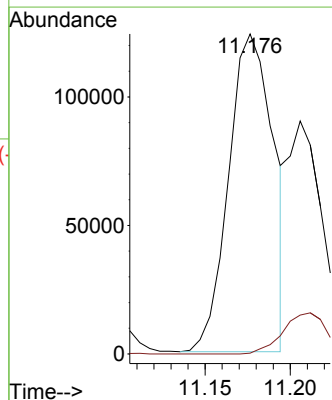
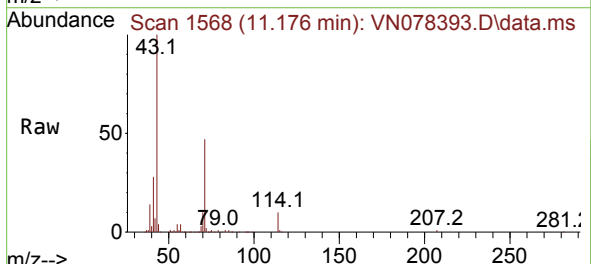
Acq: 24 Jun 2023 14:37

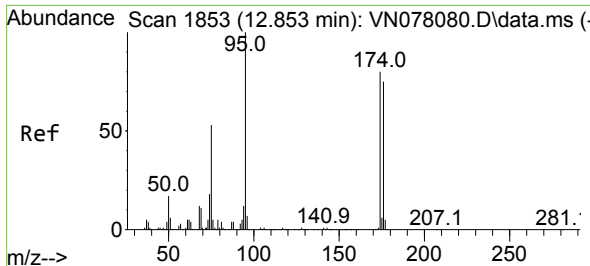
Tgt Ion: 43 Resp: 225869

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

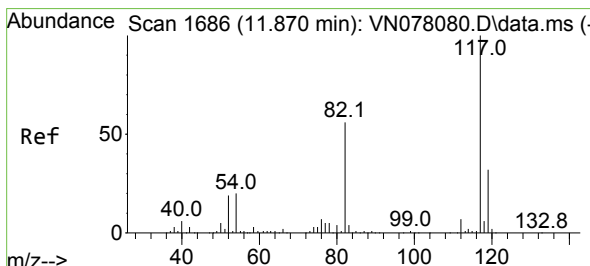
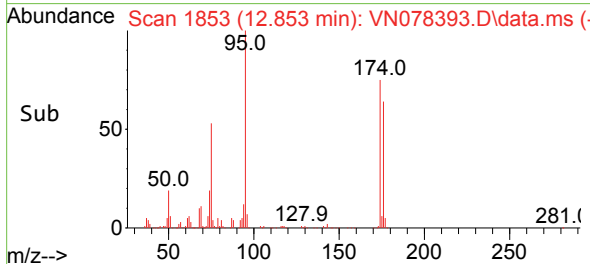
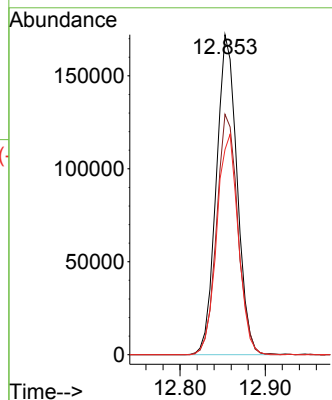
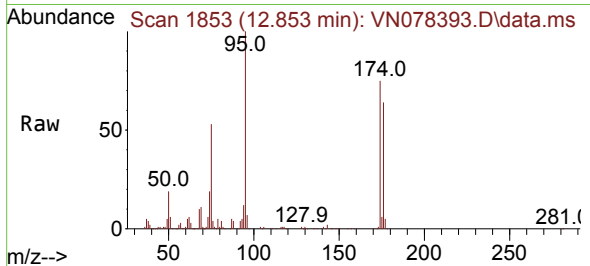




#62
4-Bromofluorobenzene
Concen: 48.420 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

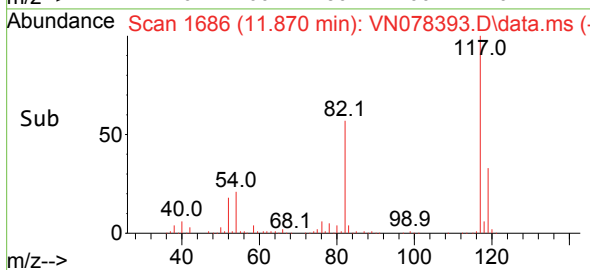
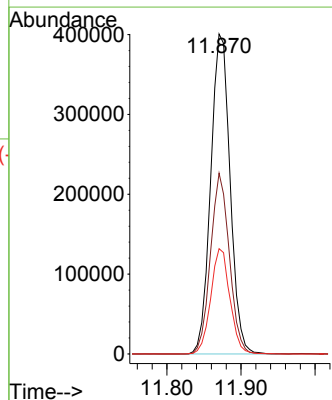
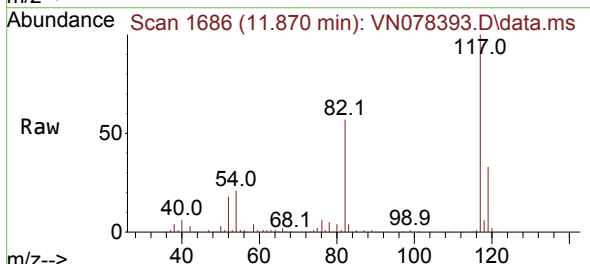
Instrument :
MSVOA_N
ClientSampleId :
SF-9

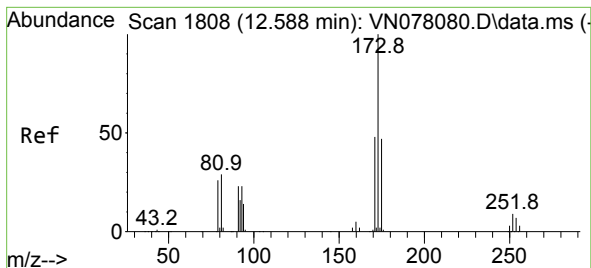
Tgt Ion: 95 Resp: 291103
Ion Ratio Lower Upper
95 100
174 77.0 0.0 143.8
176 71.4 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 117 Resp: 727670
Ion Ratio Lower Upper
117 100
82 56.5 44.0 66.0
119 32.9 25.6 38.4





#71

Bromoform

Concen: 0.492 ug/l

RT: 12.853 min Scan# 1808

Delta R.T. 0.265 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

Instrument :

MSVOA_N

ClientSampleId :

SF-9

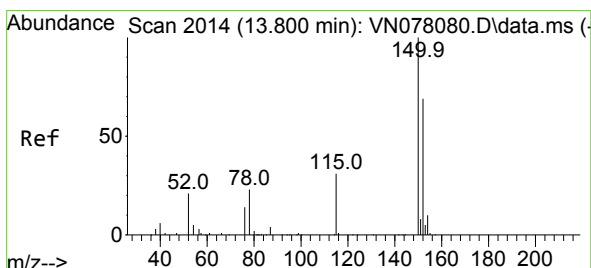
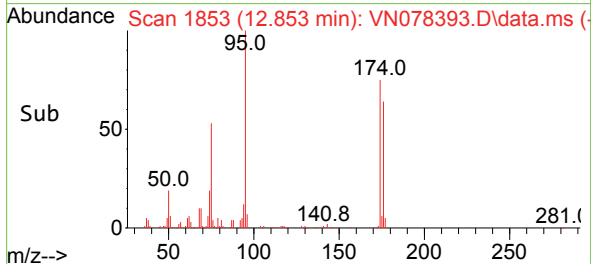
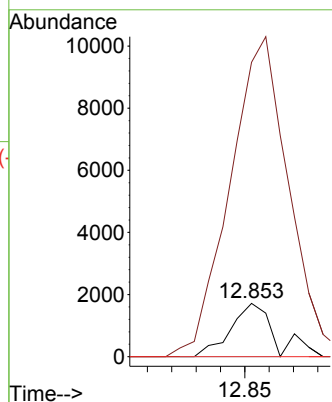
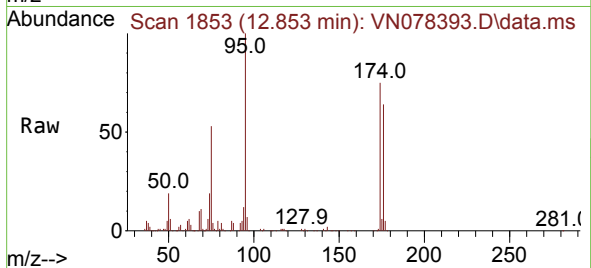
Tgt Ion:173 Resp: 1820

Ion Ratio Lower Upper

173 100

175 799.9 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

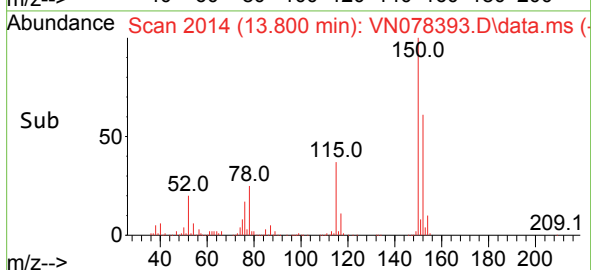
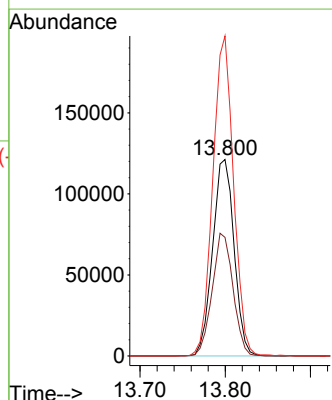
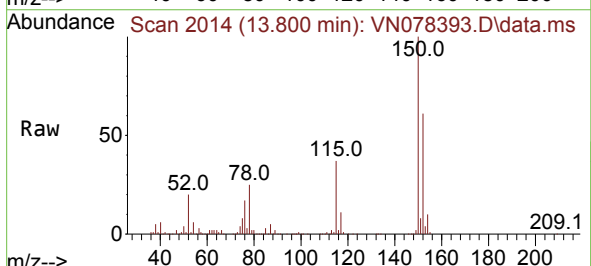
Tgt Ion:152 Resp: 212125

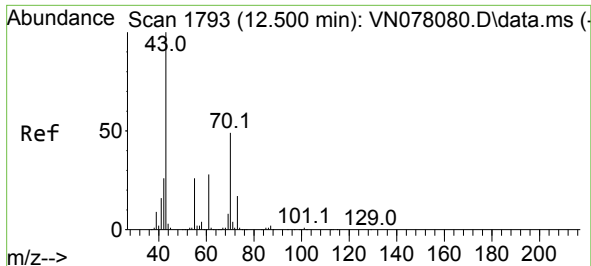
Ion Ratio Lower Upper

152 100

115 60.7 32.3 96.8

150 157.0 0.0 355.8

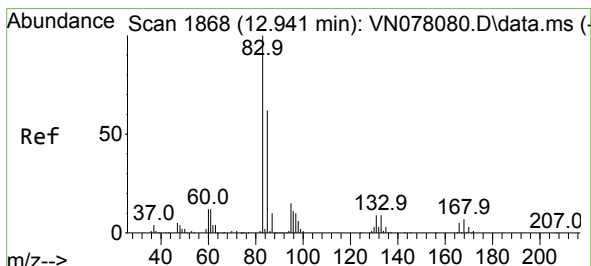
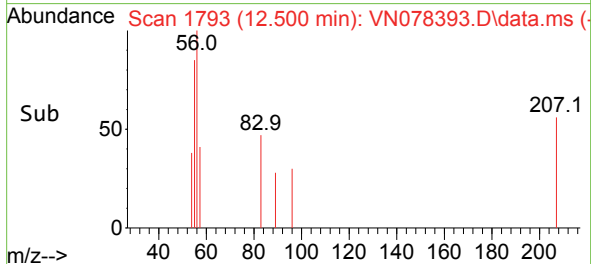
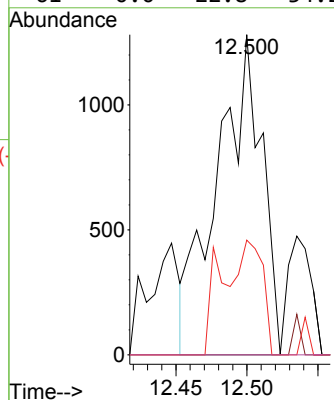
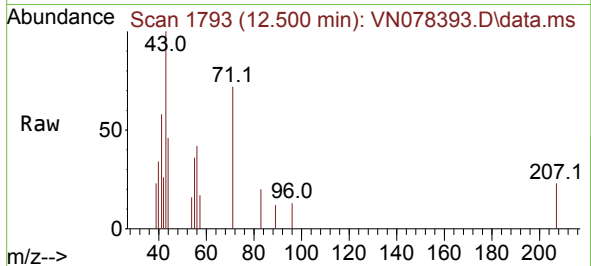




#74
N-amy1 acetate
Concen: 0.424 ug/l
RT: 12.500 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

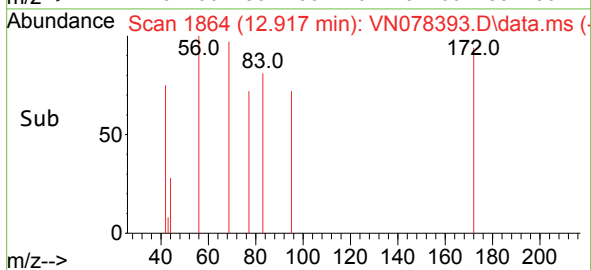
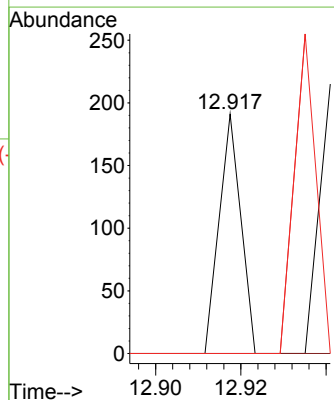
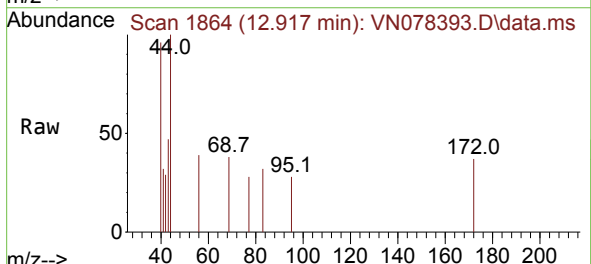
Instrument :
MSVOA_N
ClientSampleId :
SF-9

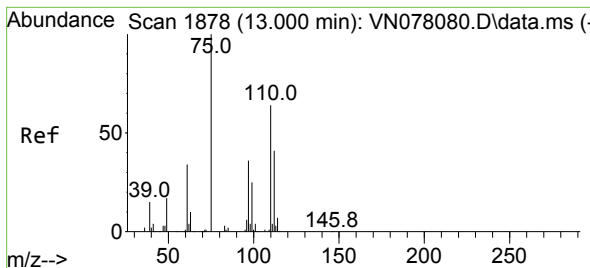
Tgt Ion: 43	Resp:	2801
Ion	Ratio	Lower Upper
43	100	
70	0.0	43.4 65.2#
55	19.7	21.4 32.0#
61	0.0	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.917 min Scan# 1864
Delta R.T. -0.024 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Tgt Ion: 83	Resp:	67
Ion	Ratio	Lower Upper
83	100	
131	0.0	5.0 15.0#
85	134.3	31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 31.156 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

Instrument :

MSVOA_N

ClientSampleId :

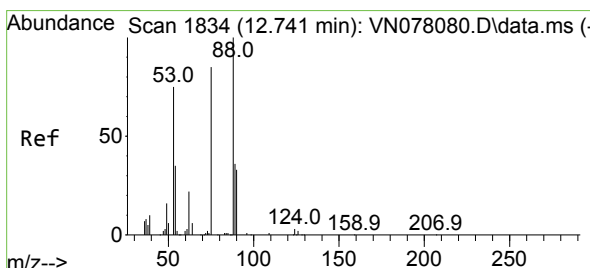
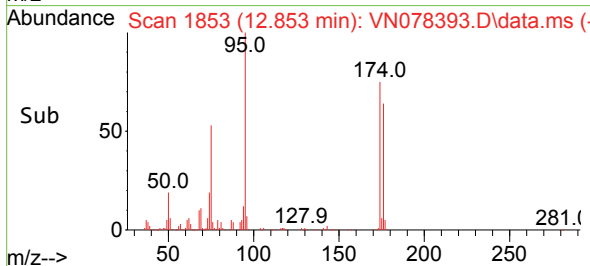
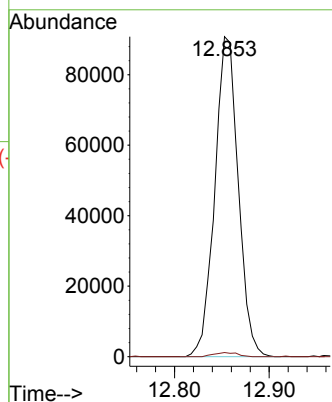
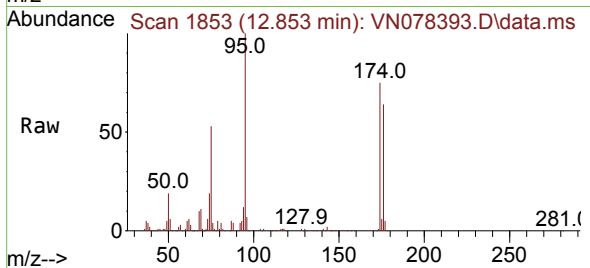
SF-9

Tgt Ion: 75 Resp: 156237

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 95.720 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078393.D

Acq: 24 Jun 2023 14:37

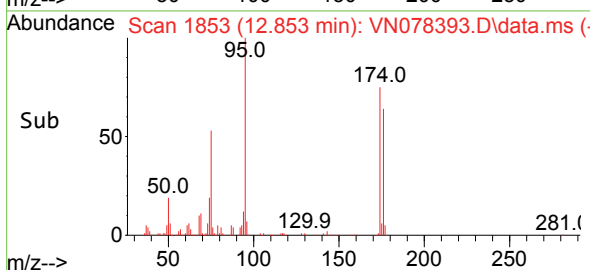
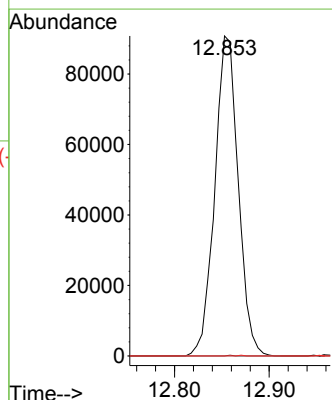
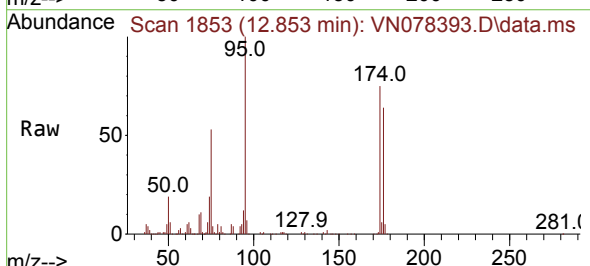
Tgt Ion: 75 Resp: 156237

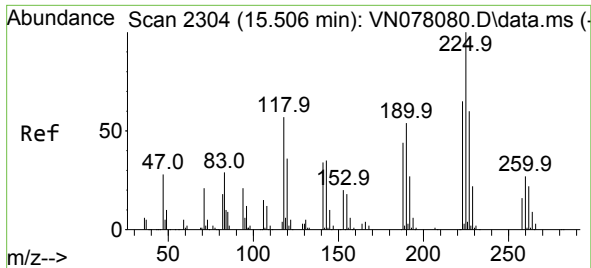
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

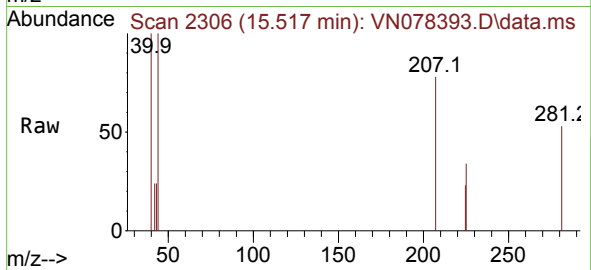
89 0.1 38.8 58.2#





#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.517 min Scan# 21
Delta R.T. 0.011 min
Lab File: VN078393.D
Acq: 24 Jun 2023 14:37

Instrument :
MSVOA_N
ClientSampleId :
SF-9



Tgt Ion:	225	Resp:	226
Ion	Ratio	Lower	Upper
225	100		
223	31.4	31.3	93.8
227	27.4	31.9	95.9#

